COE 197 ME08: DOCKER

Jalen Tadeja

201800231

5. Volumes

```
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 httpd:2.4
9e9a11c624b148a73b23f27a2a8d670435a47c0678545412b2bfa9533f3e7730
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> curl localhost


StatusCode      : 200
StatusDescription : OK
Content         : <html><body><h1>It works!</h1></body></html>

RawContent      : HTTP/1.1 200 OK
                  Keep-Alive: timeout=5, max=100
                  Connection: Keep-Alive
                  Accept-Ranges: bytes
                  Content-Length: 45
                  Content-Type: text/html
                  Date: Thu, 17 Jun 2021 22:20:20 GMT
                  ETag: "2d-432a5e4a73a80...
Forms           : {}
Headers         : {[Keep-Alive, timeout=5, max=100], [Connection, Keep-Alive], [Accept-Ranges, bytes], [Content-Length,
                  45]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : mshtml.HTMLDocumentClass
RawContentLength : 45


PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker volume ls
DRIVER     VOLUME NAME
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker volume create
0ad1a37353504ebf64b1ddf444a9608fec97ca6330e90d1cf8fb30b1d6bc154d
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker volume ls
DRIVER     VOLUME NAME
local      0ad1a37353504ebf64b1ddf444a9608fec97ca6330e90d1cf8fb30b1d6bc154d
```

```
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker volume rm 0ad1a37353504ebf64b1ddf444a9608fec97ca6330e90d1cf8fb30b1d6bc154d
0ad1a37353504ebf64b1ddf444a9608fec97ca6330e90d1cf8fb30b1d6bc154d
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes>
```

```
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker volume create httpd_htdocs
httpd_htdocs
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 -v htt
pd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
docker: Error response from daemon: Conflict. The container name "/apache" is already in use by container "9e9a11c624b148a73b
23f27a2a8d670435a47c0678545412b2bfa9533f3e7730". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker volume ls
DRIVER    VOLUME NAME
local     httpd_htdocs
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 -v htt
pd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
docker: Error response from daemon: Conflict. The container name "/apache" is already in use by container "9e9a11c624b148a73b
23f27a2a8d670435a47c0678545412b2bfa9533f3e7730". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker images
REPOSITORY            TAG       IMAGE ID       CREATED           SIZE
brogelio/ping         1.0       fee09f9cf71d   About an hour ago  139MB
brogelio/ping         latest    fee09f9cf71d   About an hour ago  139MB
wurstmeister/kafka    latest    c3b059ede60e   10 days ago        507MB
httpd                 2.4       39c2d1c93266   3 weeks ago        138MB
ubuntu                16.04     9ff95a467e45   4 weeks ago        135MB
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker volume rm 9e9a11c624b148a73b23f27a2a8d670
435a47c0678545412b2bfa9533f3e7730
Error: No such volume: 9e9a11c624b148a73b23f27a2a8d670435a47c0678545412b2bfa9533f3e7730
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache1 -p 80:80 -v ht
tpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
75a28a67f43fe6a49502251793a9092fbb128d00033adbf6127ccdc422dcdb6d
docker: Error response from daemon: driver failed programming external connectivity on endpoint apache1 (cf49b12bfc27d189e267
eaa31d9e9b899bd48ee72317cf6cdc7b170038b63f70): Bind for 0.0.0.0:80 failed: port is already allocated.
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache1 -p 80:81 -v ht
tpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
b72282daa57933bec57042b8abeb3436d93b35c88b02efa8be1774fdac65ffec
docker: Error response from daemon: driver failed programming external connectivity on endpoint apache1 (49cbe38a51c6b1ab2e48
c732bed9c8b977939a1a423d59e946e83bd58632e429): Bind for 0.0.0.0:80 failed: port is already allocated.
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache1 -p 81:81 -v ht
tpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
f3fe173cd6bab0c233f67e518a8e553f008e438d6354a14656de6cf759b66026
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker cp index.html apache:/usr/local/apache2/h
tdocs/
```

```
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> curl

cmdlet Invoke-WebRequest at command pipeline position 1
Supply values for the following parameters:
Uri: localhost


StatusCode        : 200
StatusDescription : OK
Content           : <html><body><h1>It works in Docker!</h1></body></html>

RawContent        : HTTP/1.1 200 OK
                    Keep-Alive: timeout=5, max=100
                    Connection: Keep-Alive
                    Accept-Ranges: bytes
                    Content-Length: 56
                    Content-Type: text/html
                    Date: Thu, 17 Jun 2021 22:35:05 GMT
                    ETag: "38-5c4fac693db00...
Forms             : {}
Headers           : {[Keep-Alive, timeout=5, max=100], [Connection, Keep-Alive], [Accept-Ranges, bytes], [Content-Length,
                    56]...}
Images            : {}
InputFields       : {}
Links             : {}
ParsedHtml        : mshtml.HTMLDocumentClass
RawContentLength  : 56



PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker stop apache
apache
```

```
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 httpd:
2.4
d0ab6e0827c46f27d85d201555ea12fe66005c4a4a52a9f5a7dc4b15cd927548
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache1 -p 81:81 httpd
:2.4
docker: Error response from daemon: Conflict. The container name "/apache1" is already in use by container "f3fe173cd6bab0c23
3f67e518a8e553f008e438d6354a14656de6cf759b66026". You have to remove (or rename) that container to be able to reuse that name
.
See 'docker run --help'.
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> curl localhost


StatusCode      : 200
StatusDescription : OK
Content         : <html><body><h1>It works!</h1></body></html>

RawContent      : HTTP/1.1 200 OK
                  Keep-Alive: timeout=5, max=100
                  Connection: Keep-Alive
                  Accept-Ranges: bytes
                  Content-Length: 45
                  Content-Type: text/html
                  Date: Thu, 17 Jun 2021 22:40:20 GMT
                  ETag: "2d-432a5e4a73a80...
Forms           : {}
Headers         : {[Keep-Alive, timeout=5, max=100], [Connection, Keep-Alive], [Accept-Ranges, bytes], [Content-Length,
                  45]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : mshtml.HTMLDocumentClass
RawContentLength : 45
```

```
Login Succeeded
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker volume create httpd_htdocs
httpd_htdocs
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 -v htt
pd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
6a7e2e6c1b485a421631d97e4e35974bc6e5edd87c1663ddd275d918eb08a543
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> docker cp index.html apache:/usr/local/apache2/h
tdocs/
PS C:\Users\Jalen\Documents\[Git]\ME8_Containerization_and_Docker\5-volumes> curl localhost


StatusCode      : 200
StatusDescription : OK
Content         : <html><body><h1>It works in Docker!</h1></body></html>

RawContent      : HTTP/1.1 200 OK
                  Accept-Ranges: bytes
                  Content-Length: 56
                  Content-Type: text/html
                  Date: Thu, 17 Jun 2021 23:01:05 GMT
                  ETag: "38-5c4fac693db00"
                  Last-Modified: Thu, 17 Jun 2021 18:57:16 GMT
                  Server:...
Forms           : {}
Headers         : {[Accept-Ranges, bytes], [Content-Length, 56], [Content-Type, text/html], [Date, Thu, 17 Jun 2021
                  23:01:05 GMT]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : mshtml.HTMLDocumentClass
RawContentLength : 56
```